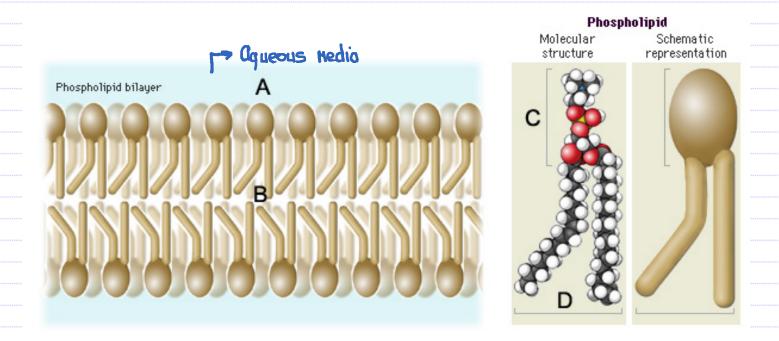
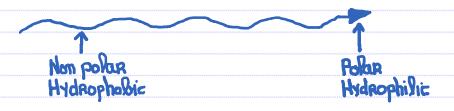
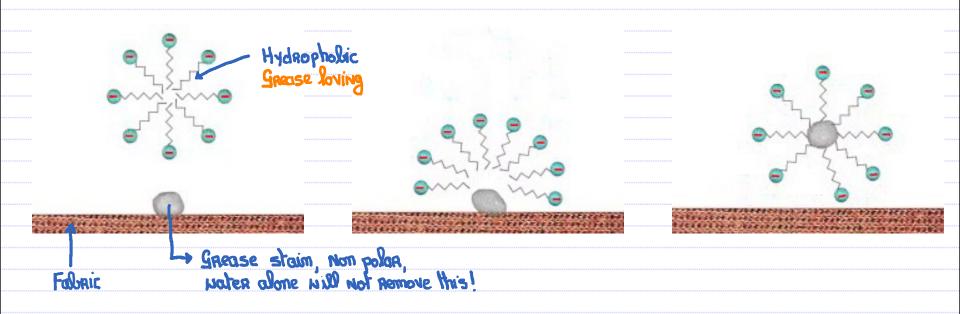
## 3.11 Consequence of Molecular Polarity



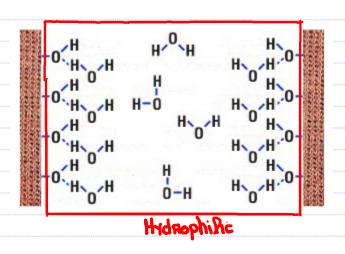


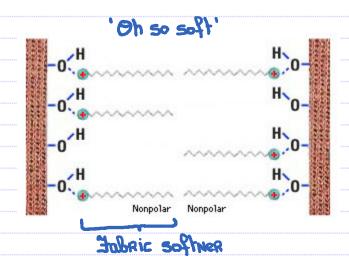
## DETERGENTS

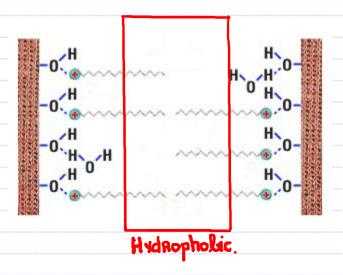


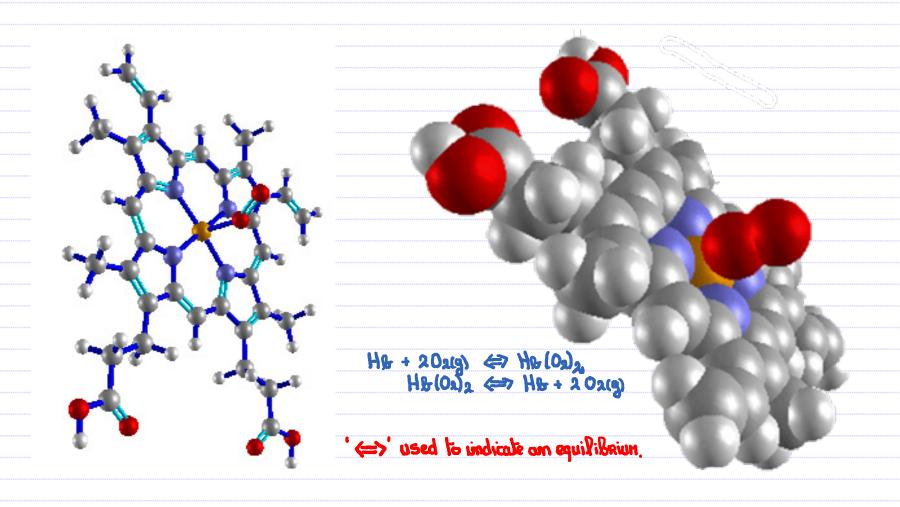
? I himh outside the box ... is there any way that the neverse process might find some nedical use?



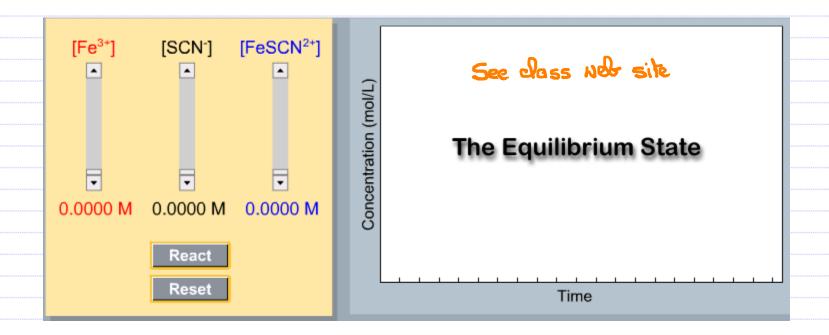




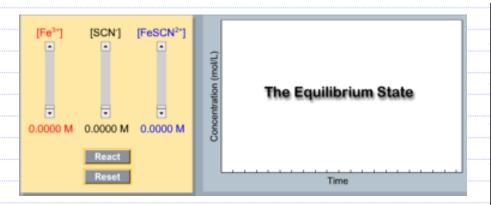




## 7.5 What Does It Mean to Say That a Reaction Has Reached Equilibrium



## 7.5 What Does It Mean to Say That a Reaction Has Reached Equilibrium



Starting Concentrations					
	[Fe <sup>3+</sup> ]	[SCN <sup>-</sup> ]	[FeSCN <sup>2+</sup> ]		
#1	0.004	0.007	0		
#2	0	0	0.007		
#3	0.004	0.003	0.004		

Equilibrium Concentrations						
	[Fe <sup>3+</sup> ]	[SCN <sup>-</sup> ]	[FeSCN <sup>2+</sup> ]	[Fe <sup>3+</sup> ][SCN <sup>-</sup> ]/[FeSCN <sup>2+</sup> ]	[FeSCN <sup>2+</sup> ]/[Fe <sup>3+</sup> ][SCN <sup>-</sup> ]	
#1	2.285×10 <sup>-3</sup>	5.285×10 <sup>-3</sup>	1.714 x 10 <sup>-3</sup>	7.046 × 10 <sup>-3</sup>	141.9	
#2	4.333 × 10 <sup>-3</sup>	4.333×10 <sup>-3</sup>	2.666 ×10-3	7.042×10 <sup>-3</sup>	142.0	
#3	5.069×10 <sup>-3</sup>	4.069 × 10 <sup>-3</sup>	2.930×10-3	7.040×10 <sup>-3</sup>	142.0	

$$\frac{\text{[Fe 3+][SCN^{2}]}}{\text{[Fe SCN }^{2+}]} = \text{Constant} \qquad \frac{\text{[Fe SCN }^{2+}]}{\text{[Fe }^{3+}][SCN^{-}]} = \text{Constant}$$